453

SE-P900

US Model
AEP Model
UK Model

STEREO ACOUSTIC EQUALIZER

SPECIFICATIONS

System	Variable state filter (unit amp : 2-stage differential amp + SEPP output)
Inputs	Sensitivity 150 mV, Impedance 50 kilohms (for rated output)
Maximum input level	7.0 volts
Outputs	Rated output 150 mV, Impedance 100 ohms (Gain 0 dB)
Harmonic distortion	less than 0.01% at 1 volt output
Frequency response	5 Hz – 100 kHz $^{+0}_{-3}$ dB (with all LEVEL controls at DEFEAT position)
Signal-to-noise ratio	Greater than 84 dB (at 150 mV input, closed circuit, IHF-A network) Greater than 100 dB (at 1 volt input, closed circuit, IHF-A network)
Power requirements	US model : 120 V ac, 60 Hz AEP, UK models : 110, 120, 220, or 240 V ac selectable, 50/60 Hz
Power consumption	11 watts
Dimensions	Approx. 480 × 80 × 400 mm (w/h/d) (18⅞ × 3⅛ × 15⅞ inches) including projecting parts and controls
Weight	Approx. 8.1 kg (17 lbs 14 oz), net Approx. 10 kg (22 lbs), in shipping carton
Functions	
Peaking	Center frequencies LOW 30 – 600 Hz MID 200 – 5,300 Hz HIGH 800 – 15,000 Hz Bandwidth 0.15 – 1.0 octave Level ±12 dB
Shelving	Turn over frequencies (frequency point at 3 dB from the level set) LOW 30 – 600 Hz HIGH 800 – 15,000 Hz Level ±12 dB

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

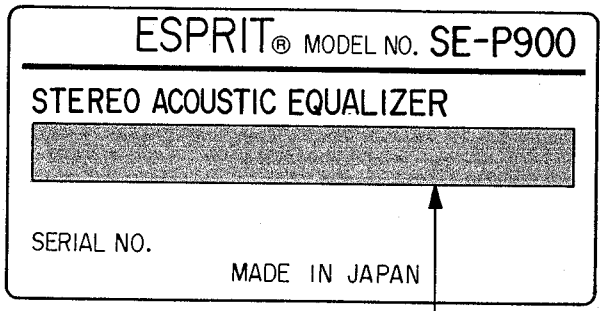
MICROFILM

SONY®
SERVICE MANUAL

2241

MODEL IDENTIFICATION

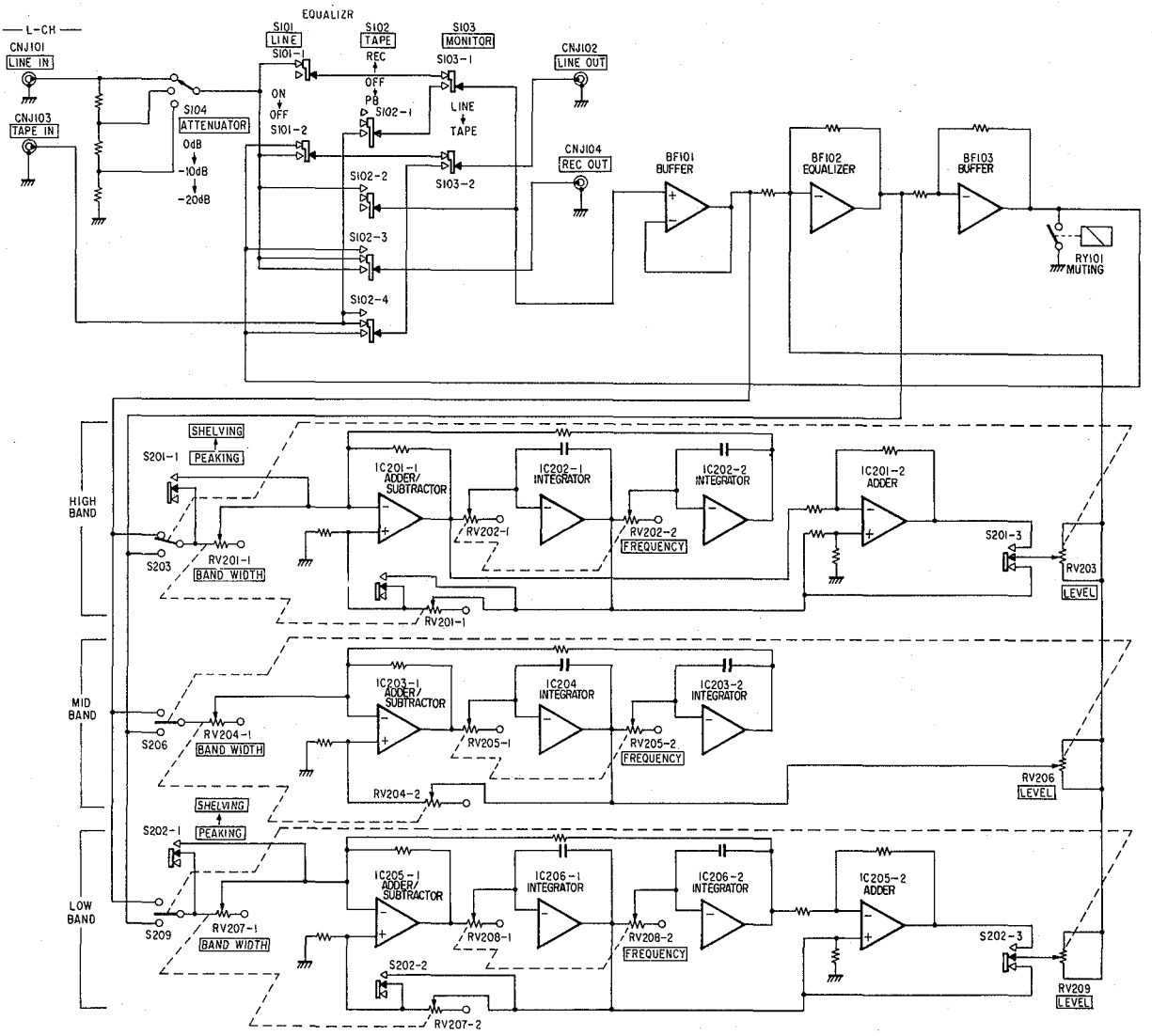
– Specification Label –



US model:	AC: 120V	60Hz	11W
AEP model:	AC: 220V	50/60Hz	11W
UK model:	AC: 240V	50/60Hz	11W

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM



1-2. CIRCUIT DESCRIPTION

ACOUSTIC EQUALIZER

The device commonly used to improve on acoustic response is a graphic equalizer. This divides the audio frequency range into 8–24 narrow bands, and raises and lowers the response curve at each point in order to obtain a flat overall response at the listening position. In other words, with a graphic equalizer, there are many adjustment positions established, some of which are assigned to correcting specified bands, leaving idle those not assigned to correction, resulting in poor efficiency.

However, if a great many adjustment positions are not established, frequency points which should be corrected will not match with an adjustment position, and proper correction cannot be performed.

The SE-P900 acoustic equalizer has only 3 adjustment positions: LOW, MID and HIGH. However, the center frequency with peaking characteristic can be adjusted continuously over a wide frequency range (LOW: 30 – 600Hz, MID: 200 – 5.3kHz, HIGH: 800 – 15kHz) so the frequency to be corrected can be accurately matched to adjustment points. In addition, the three bands overlap each other, so it is easier to adjust frequencies between the bands, near the edges.

Level adjustment and band width adjustment can also be performed at each position. In the same way as frequency adjustment, level and band width adjustment can be changed continuously within the range. Also, each adjustment can be operated completely independently. This prevents an unrelated value of the parameter from changing when performing another adjustment. Therefore, by using these 3 adjustment functions, a free correction curve can be created.

One other feature is that in the LOW and HIGH bands, shelving characteristic and peaking characteristic can be switched. This is a butterfly curve which is the same as tone control in conventional amps, and allows much more distinct shading because of the frequency adjustment feature.

VARIABLE STATE FILTER

SE-P900 employs an active filter called the variable state filter. The variable state filter consists of three operational amplifiers with add-subtract and integrator circuits. The block diagram is shown in Figure 1. With this circuit, the 2nd degree function outputs of the HPF (High Pass Filter), BPF (Band Pass Filter) and LPF (Low Pass Filter) can be used to establish the center frequency of (cut-off frequency in the case of HPF, LPF) and Q simply by changing the specified resistance value.

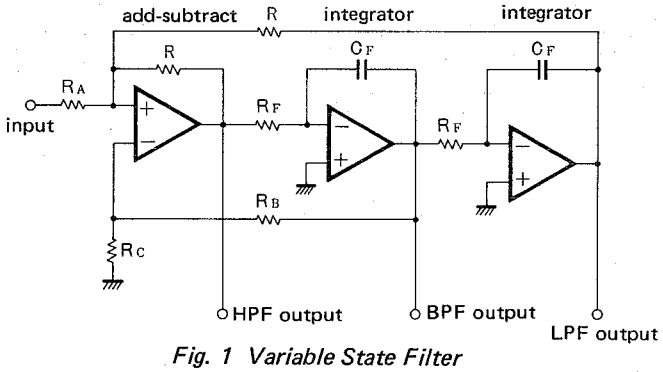


Fig. 1 Variable State Filter

In SE-P900, one variable state filter is incorporated in each section – HIGH BAND, MID BAND and LOW BAND. Also, a filter is inserted in the input and NF circuits of the equalizer stage to obtain the desired response.

FREQUENCY ADJUSTMENT

Frequency adjustment changes the response of the center frequency fo in the variable state filter. fo is given as $fo = \frac{1}{2\pi \cdot C_F \cdot R_F}$ and the 2 R_{FS} are changed by the interlocking control knobs.

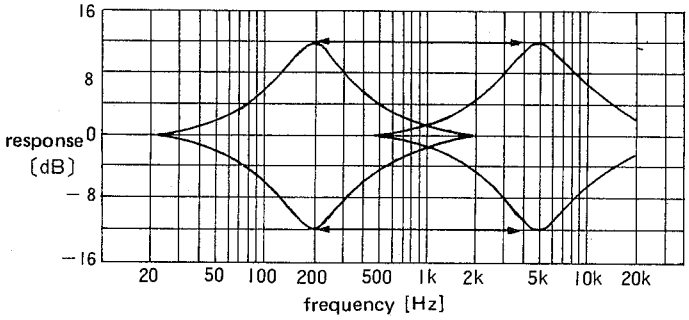


Fig. 2 Frequency Adjustment (MID BAND)

BAND WIDTH ADJUSTMENT

Band width adjustment changes the Q response of the variable state filter.

Q is given as $Q = \frac{R_A}{R}$ when $\begin{pmatrix} R_A = R_B \\ R_C = R/2 \end{pmatrix}$ and R_A and R_B are changed by interlocking control.

The band width (3dB from the peak) in this model can be adjusted between 0.15 – 1.0 octave.

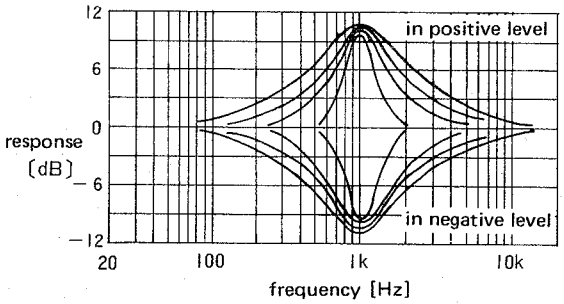


Fig. 3 Band Width Adjustment

LEVEL ADJUSTMENT

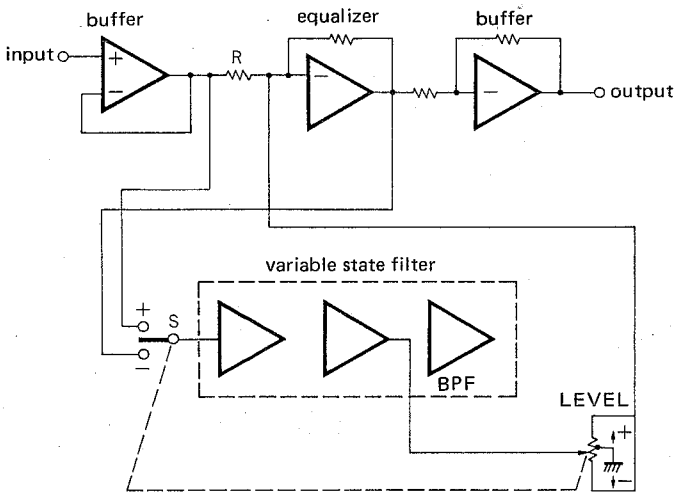


Fig. 4 Level Control Circuit

The LEVEL control knob is linked with switch S. As shown in Figure 4, when the LEVEL control knob is at the center (DEFEAT) the BPF output is grounded and S is neutral. At this time the equalizer stage separates from the filter and response becomes flat. When the control knob is on the positive side, S connects to the positive side and the filter becomes an input circuit and boosted according to the control knob position. When the control knob is on the negative side, S is connected to the negative side, the filter becomes an NF circuit and NF is applied and the output level is decreased according to the control knob position.

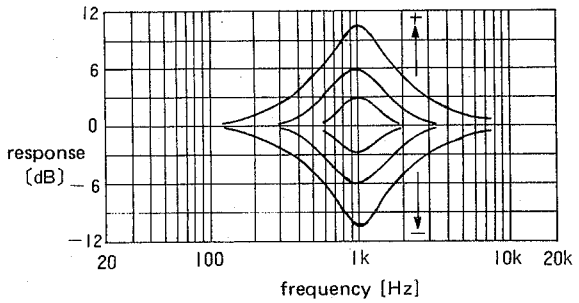


Fig. 5 Level Adjustment

SHELVING CHARACTERISTIC

For HIGH BAND, the SHELVING characteristic is composed of the addition of BPF response output from the Variable State Filter and the HPF response output (LPF response for LOW BAND). (See Figure 6)

The BPF response output results in smooth coupling with the MID BAND, and the HPF response output creates a flat response at the high end. For SHELVING characteristic the level and the frequency can be changed continuously, the same as for PEAKING characteristic, but BAND WIDTH is fixed at the appropriate value.

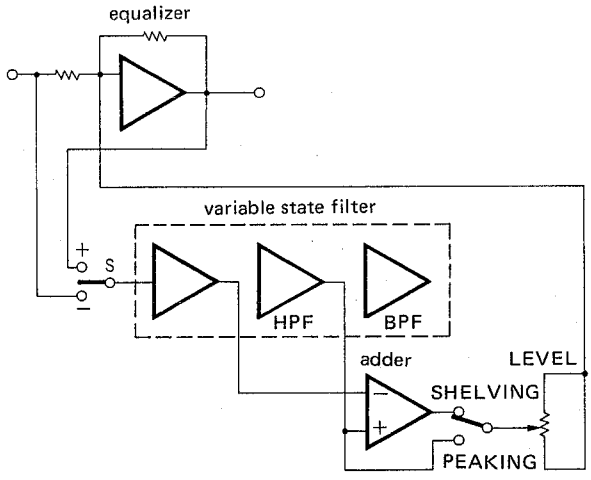


Fig. 6 Shelving Response Circuit (HIGH BAND)

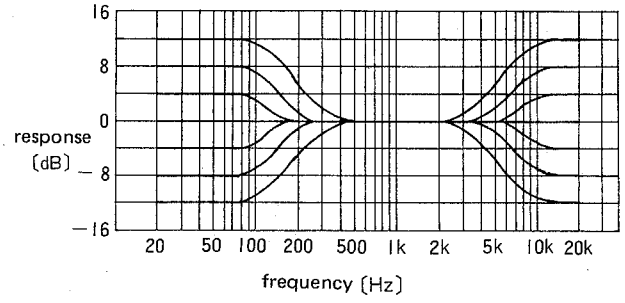


Fig. 7 Shelving Response

BUFFER UNIT (BF)

A great deal of effort has gone into the SE-P900, so as to prevent poor S/N and deterioration in sound quality when using a graphic equalizer in an audio system.

One result is the buffer unit employed in the buffer and equalizer stages. The circuitry of the buffer unit is shown in Figure 8.

The initial stage is a junction FET cascode connection differential amp with constant currect source. It reduces the high range distortion resulting from nonlinearity in the FET feedback capacity, because of the high input impedance and the cascode connection. The FET uses a dual cascode connection with excellent pair response to suppress temperature drift.

The second stage is a Miller current loaded differential amp composed of bipolar transistors, which provides high linearity response and power rejection response.

The final stage is a pure complementary emitter-follower SEPP output which provides low impedance output and high linearity response.

The buffer unit circuit allows 100% NF, and is employed as gain 1 (during DEFEAT in the equalizer stage) so there is almost no deterioration in sound quality.

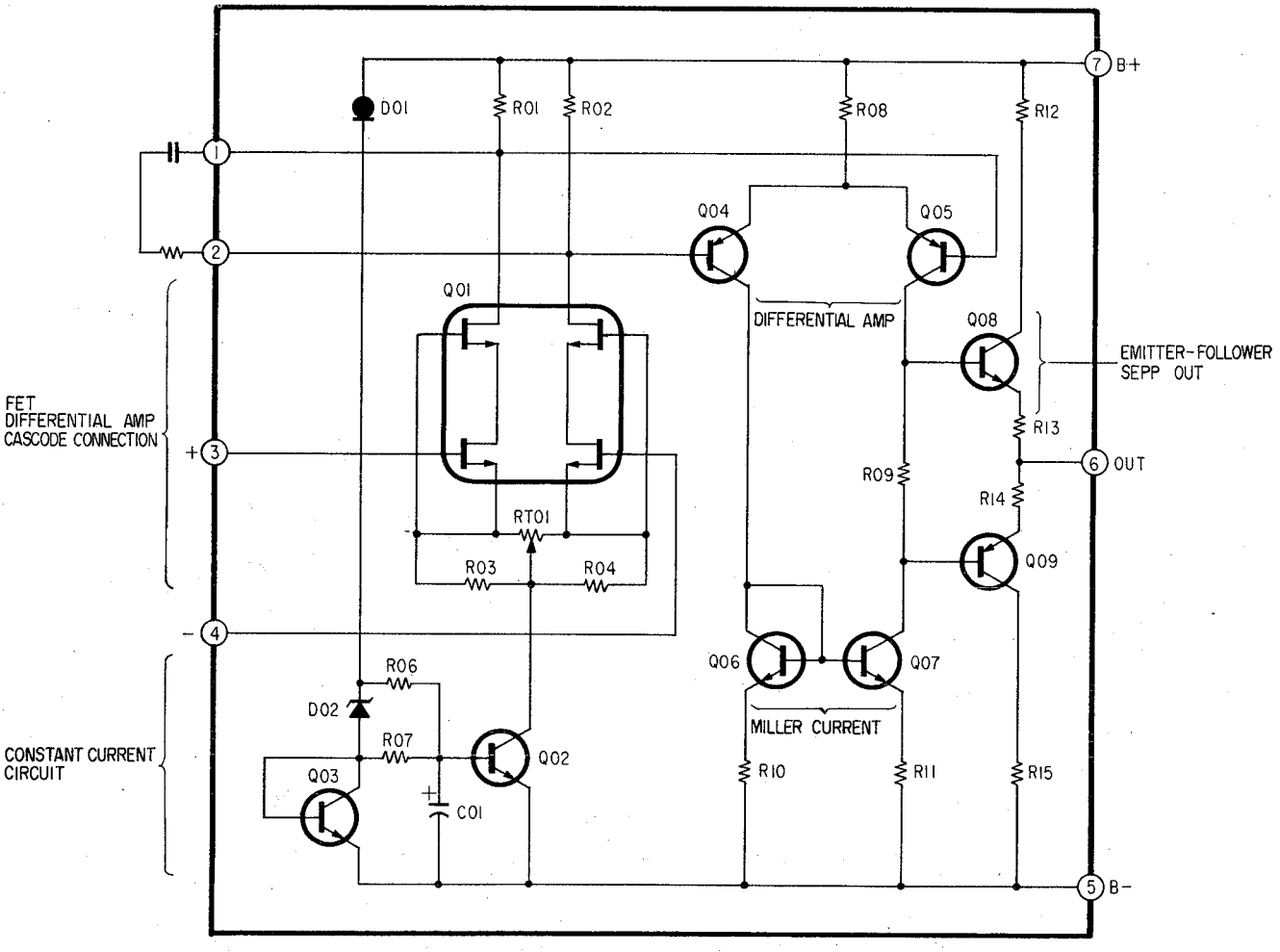
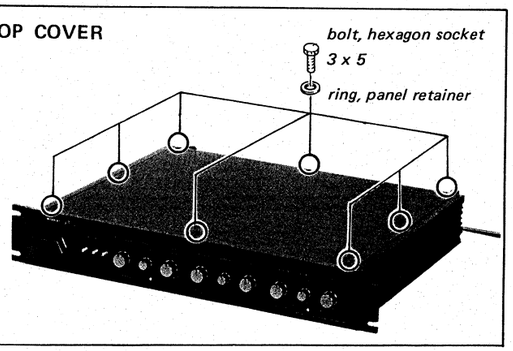


Fig. 8 Buffer Unit Circuit

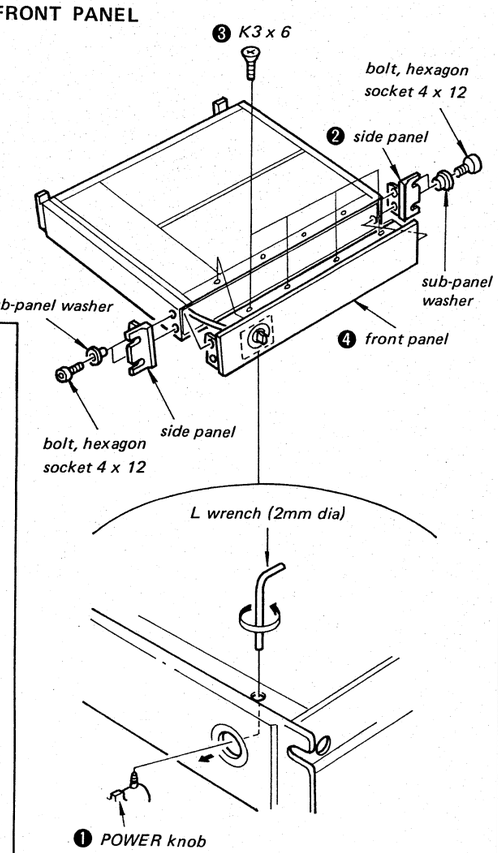
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

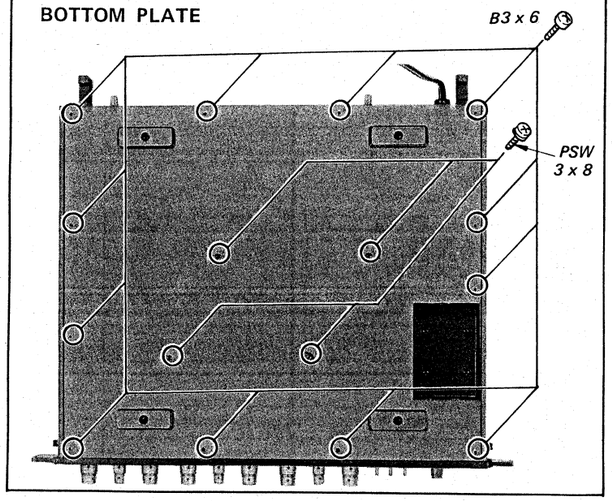
TOP COVER



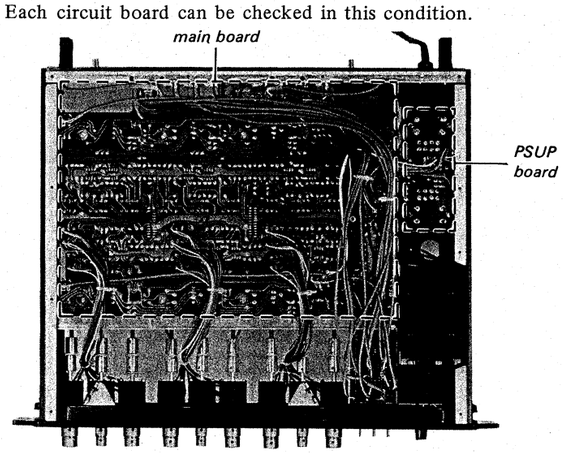
FRONT PANEL



BOTTOM PLATE

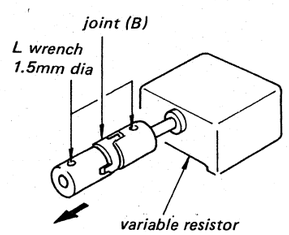


Each circuit board can be checked in this condition.



Precaution in removing joint (B)

Take care not to pull the end of the joint (B) in the direction shown by the arrow.



SECTION 3
ADJUSTMENTS

Offset Adjustment

Setting:

POWER switch:	ON
EQUALIZER LINE:	ON
EQUALIZER TAPE:	OFF
MONITOR:	LINE
LEVEL:	DEFEAT

Procedure:

1. Short the LINE IN jack.
2. Adjust the adjustable resistors (BF101–103, 151–153) in the numerical order given to obtain 0V reading at each test point (TP1–3, 51–53).
   Specification: 0 ±3mV

L-CH	R-CH
❶ BF101 (TP1)	❶ BF151 (TP51)
❷ BF102 (TP2)	❷ BF152 (TP52)
❸ BF103 (TP3)	❸ BF153 (TP53)

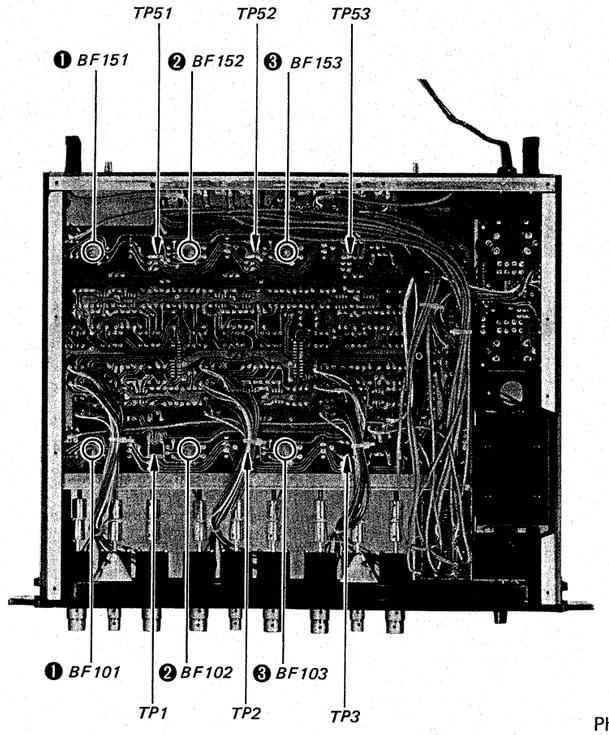


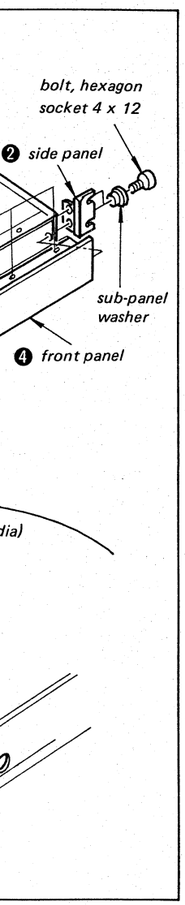
Photo : US model

Muting Time Confirmation

Make sure of the operation of the relays.
The adjustment is not necessary.

1. Power switch: ON
   The relays RY101, 151 should operate 2 or 3 seconds after power switch is turned on.
2. Power switch: OFF
   The relays RY101, 151 should operate at the instant power switch is turned on.

SECTION 3
ADJUSTMENTS



Offset Adjustment

Setting:

POWER switch:	ON
EQUALIZER LINE:	ON
EQUALIZER TAPE:	OFF
MONITOR:	LINE
LEVEL:	DEFEAT

Procedure:

1. Short the LINE IN jack.
2. Adjust the adjustable resistors (BF101–103, 151–153) in the numerical order given to obtain 0V reading at each test point (TP1–3, 51–53).

   Specification: 0 ±3mV

	L-CH	R-CH
❶	BF101 (TP1)	BF151 (TP51)
❷	BF102 (TP2)	BF152 (TP52)
❸	BF103 (TP3)	BF153 (TP53)

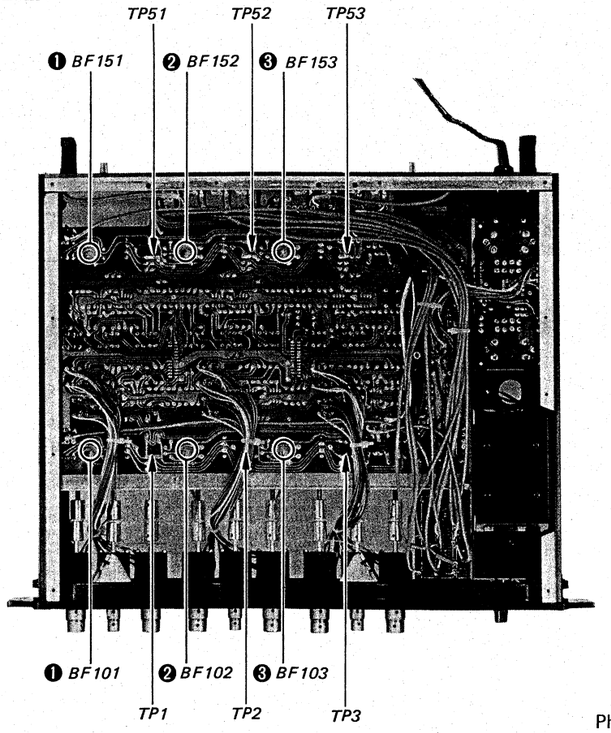


Photo : US model

Muting Time Confirmation

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The adjustment is not necessary.

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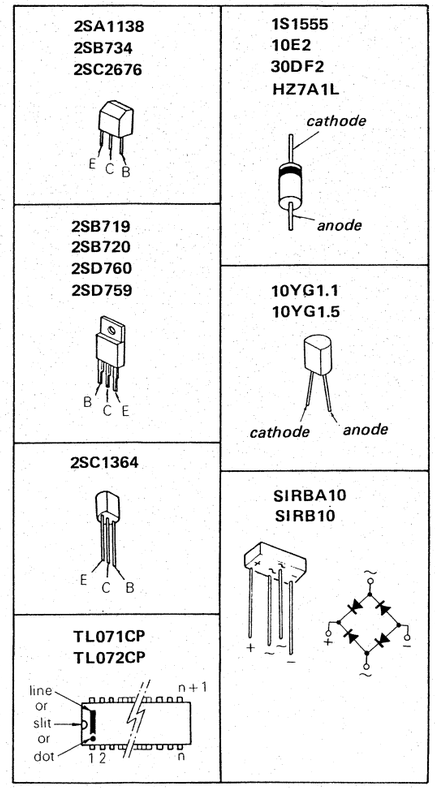
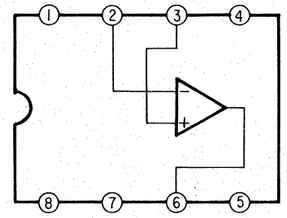
   The relays RY101, 151 should operate at the instant power switch is turned on.

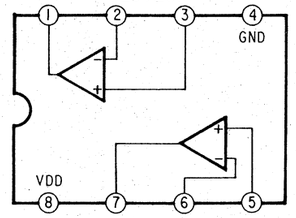
Semiconductor Lead Layouts



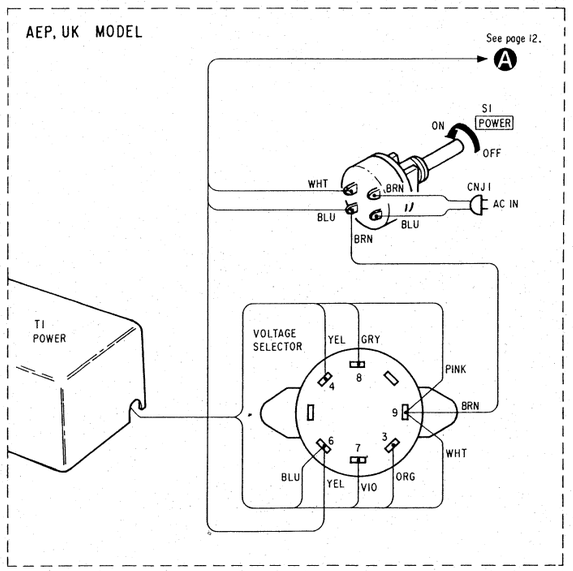
IC204,254 TL071CP



IC201, 202, 203, 205, 206
251, 252, 253, 255, 256
TL072CP

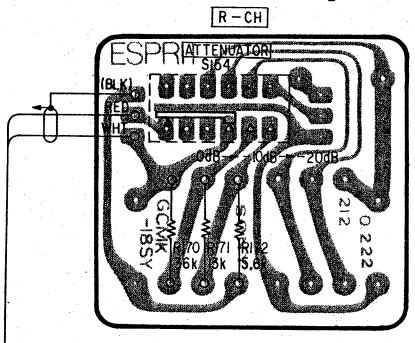


Power Transformer Section

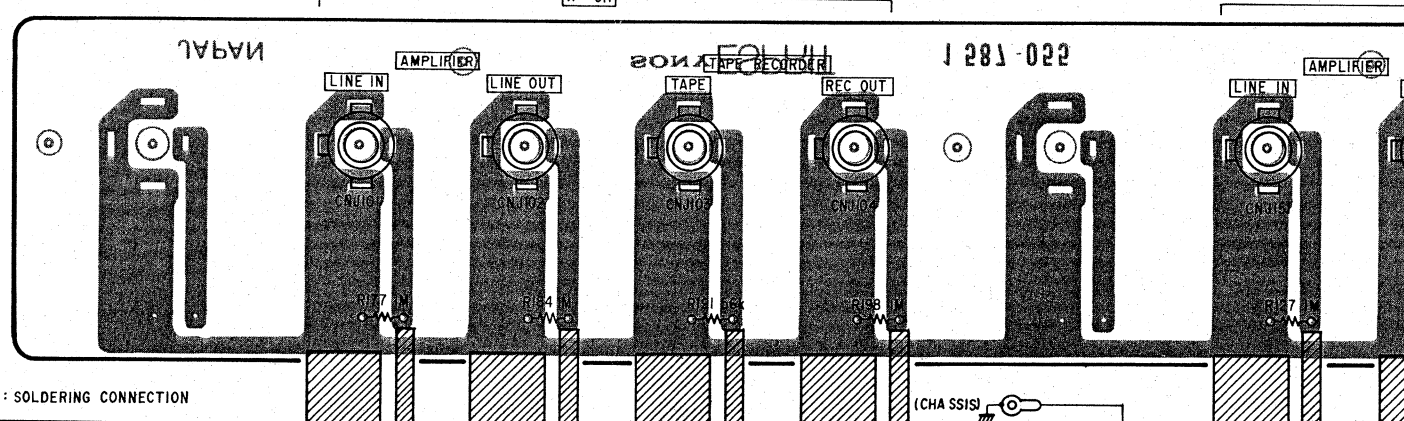


RV	RV253 RV203	RV251 RV201	RV252 RV202	RV256 RV206	RV254 RV204	RV255 RV205	RV25 RV20

【ATTENUATOR BOARD】



【PIN JACK BOARD】



【MAIN BOARD】

: SOLDERING CONNECTION

RV254
RV204

RV255
RV205

RV259
RV209

RV257
RV207

RV258
RV208

L-CH

TAPE RECORDER

TAPE

REC OUT

AMPLIFIER

LINE IN

LINE OUT

TAPE RECORDER

TAPE

REC-OUT

CN316

CN317

CN318

CN319

CN320

CN321

R151 15k

R198 1M

R127 1M

R147 1M

R148 1M

12

(CHASSIS)

(ORG)

(GRN)

(BRN)

(RED)

(ORG)

(GRN)

(BLK)

RED

WHT

BLK

(CLEAR)

WHT

RED

RV153

R151

C154 2200p 100V

C153 100p 500V

R162 10k

R158 10k

R155 10k

TP52

C161 50V

C162 1/50V

C157 100p 500V

14.5V

0V

15.3V

C155 33p 100V

R160 10k

R161 100

R162 10k

TP53

C156 22/16V

C157 22/16V

C158 0.22/100V

C163 50V

C164 1/50V

C256 1/50V

C259 0.015/100V

C258 0.015/100V

C265 47/50V (B.P)

R272 2k

R288 10k

R276 2k

S259

S252

S202

SHELVING

PEAKING

RV254 20K(B)

RV255 50K(C)

RV259 20K(B)

RV257 20K(B)

RV258 50K(C)

IC253

IC254

IC256

IC255

R284 3.9k

R287 3.3k

R286 3.3k

R285 6.8k

C261 1/50V

C262 1/50V

C264 0.1/100V

C263 0.1/100V

C269 47/10V(B.P)

C268 47/50V

R268 2.4k

R270 2k

R266 3.3k

R267 1.2k

R269 3.3k

R278 2.4k

R281 2.7k

R275 1.3k

R277 1.2k

R280 2k

R279 1.3k

R283 2.7k

R223 10k

C210 10/50V(B.P)

R222 2k

R219 3.3k

R217 1.2k

R216 3.3k

R220 2k

R218 2.4k

C208 0.015/100V

C207 50V

C206 50V

IC204

IC203

C209 0.015/100V

C215 47/50V (B.P)

C219 47/50V (B.P)

C218 47/50V (B.P)

R233 2.7k

R229 1.3k

R227 1.2k

R230 2k

R225 1.3k

R228 2.4k

R231 2.7k

C212 1/50V

IC206

IC205

R232 2.4k

R237 3.3k

R235 3.3k

R236 3.3k

C214 0.1/100V

C211 1/50V

R234 3.9k

S209

C221 1/50V

(CLEAR)

RY101

C105 33p 100V

R112 100k

R110 10k

R111 10k

TP3

C113 50V

C114 1/50V

C106 22/16V

C107 22/16V

C108 0.22/100V

R107 10k

R108 10k

R109 56

C103 100p 500V

C104 2200p 100V

TP2

C112 1/50V

C111 50V

C107 100p 500V

14.5V

0V

15.3V

BF153

BF103

【ATTENUATOR BOARD】 L-CH

ATTENUATOR

S1042

(BLK)

RED

WHT

0dB

10dB

20dB

GCWK-1821

R120 56k

R121 33k

R122 5.6k

0 222 212

11

AEP, UK MODEL

(SEE PAGE 9.)

A

PL1 (POWER)

GRY

BLU

BRN

VIO

VIO

ORG

RED

BLK

TI POWER

BRN VIO

BLU RED

C310 1/50V

C306 0.068/100V

C305 0.068/100V

C309 1/50V

C357 50

C358 50V

C351 470/120V

C352 470/120V

R352 2.2k

R354 2.2k

R351 3.3k

R353 3.3k

R355 1.1k

R357 1.1k

R356 3.9k

R358 3.9k

Q352

Q353

Q354

D352

D354

D353

D351

D355

Q357

Q361

D356

Q355

Q362

Q359

Q358

Q356

Q360

C355 0.068/100V

C356 0.068/100V

C359 1/50V

C360 1/50V

Q310

Q306

Q309

Q311

Q305

Q308

D306

D305

D303

D304

D301

D302

Q307

Q304

Q303

Q301

Q302

R308 3.9k

R306 3.9k

R307 1.1k

R305 1.1k

R303 3.3k

R301 3.3k

R304 2.2k

R302 2.2k

C302 470/120V

C301 470/120V

C308 50V

C307 1/50V

11

RV204-1

RV205-1

S209

RV207-1

RV208-1

L-CH

R-CH

RV204-2

RV205-2

RV209

RV207-2

RV208-2

MID

BAND WIDTH

FREQUENCY

LEVEL

LOW BAND

BAND WIDTH

FREQUENCY

L-CH

GCMK-18SY

TAPE RECORDER

NE OUT | TAPE | REC-OUT

CN115 | CN116

R148 1M

12

(RED) (ORG) (GRN)

(CLEAR)

WHT
RED

RV15

R168 10k | C155 33p 100V | R161 100 | R162 100k

TP53

C156 22/16V | C157 22/16V

C158 0.22/100V

C163 50V

C164 1/50V

R284 3.9k

C261 1/50V

C264 0.1/100V

IC256 | IC255

C262 1/50V | C263 0.1/100V

C269 47/10V(B.P)

C268 47/50V

R278 2.2k | R281 2.7k | R275 1.5k | R277 1.2k | R280 2k | R279 1.3k | R283 2.7k

RV257 20k(B) | RV258 20k(B)

C219 47/50V | C218 47/50V

R233 2.7k | R229 2k | R227 1.2k | R230 2k | R225 1.3k | R228 2.4k | R231 2.7k

C212 1/50V

IC206 | IC205

R232 | R234 4.9k | R237 3.3k | R235 3.3k | R236 1.5k

S209

(CLEAR)

C221 1/50V

WHT
RED
RED
WHT

RY10

C105 33p 100V | R112 100k | R110 10k

TP3

C106 22/16V | C107 22/16V

C113 50V

C108 0.22/100V

C114 1/50V

C357 50V | C358 50V

C351 470/120V | C352 470/120V

R352 2.2k | R354 2.2k | R351 3.3k | R353 3.3k | R355 1.1k | R357 1.1k | R356 3.9k | R358 3.9k

D352 | D354 | D351 | D353 | D355 | D356

Q352 | Q354 | Q351 | Q353 | Q355 | Q356 | Q357 | Q358 | Q359 | Q360 | Q361 | Q362

C355 0.068/100V | C359 1/50V | C356 0.068/100V | C360 1/50V

BRN VIO

BLU RED

C310 1/50V

C306 0.068/100V | C305 0.068/100V | C309 1/50V

D310 | D306 | D305 | D301 | D303 | D304 | D302

Q309 | Q310 | Q308 | Q306 | Q305 | Q307 | Q303 | Q304 | Q301 | Q302

R308 3.9k | R307 1.1k | R303 3.3k | R304 2.2k | R306 3.9k | R305 1.1k | R301 3.3k | R302 2.2k

C308 50V | C303 470/120V | C301 470/120V | C307 1/50V

11

【ATTENUATOR BOARD】 L-CH

ESPRIT ATTENUATOR S104

(BLK) (YEL) (WHT)

0dB 10dB 20dB

GCMK-18SY

R320 56k | R321 18k | R322 5.6k

0-222-212

11

【PSUP BOARD】

AEP, UK MODEL

(SEE PAGE 9.) Ⓐ

YEL | BLK | WHT | BLU

C806 0.022/300V

C854 3300 25V | C853 3300 25V

-27V | 27V

PL1 (POWER)

GRY | BLU | BRN | VIO | VIO | ORG | RED | BLK

D854 D853 D852 D851

14.5V | 14.9V | 12.8V | 12.2V | 11V | 5V | 0.7V

Q802 | Q801

R806 2.2k(1/4W) | R805 1k(1/4W) | R804 47k(1/4W) | R803 10k(1/4W) | R802 47k(1/4W)

R808 220(5%) | R807 (5%)

C803 2200 16V | C805 (0) 25V | C804 (0) 25V

D806 | D805 | D807

12V | 12V

R801 2.2k (1/4W)

D804 D803 D802 D801

27V | -27V

C801 3300 25V | C802 3300 25V

GRY | VIO | BRN | WHT | RED | BLU | RED | BLK

I-605-095 SONY ESPRIT

GCMK-18SY

11

US MODEL (SEE PAGE 9 FOR AEP, UK MODEL.)

S1 POWER ON OFF

CPI | CNJ1 AC IN

YEL | WHT

TI POWER

【SWITCH BOARD】

0-222-392-02

GCMK-18SY

(ORG) (CLEAR)

S152

(BRN)

S153 | S151

(RED) | (BLU) | (GRN)

(ORG) (CLEAR)

TAPE | LINE | BRN

PB | OFF | REC | ON

LINE OUT

S103 MONITOR | S102 TAPE | S101 LINE

(RED) (BLU) EQUALIZER (GRN)

11

RV207-1 | RV208-1

① ② ③ ④ ⑤ ⑥ ⑦

L-CH RV207-2 | L-CH RV208-2

R-CH | R-CH

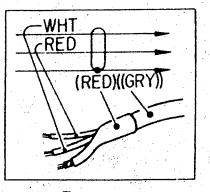
LOW BAND

BAND WIDTH

FREQUENCY

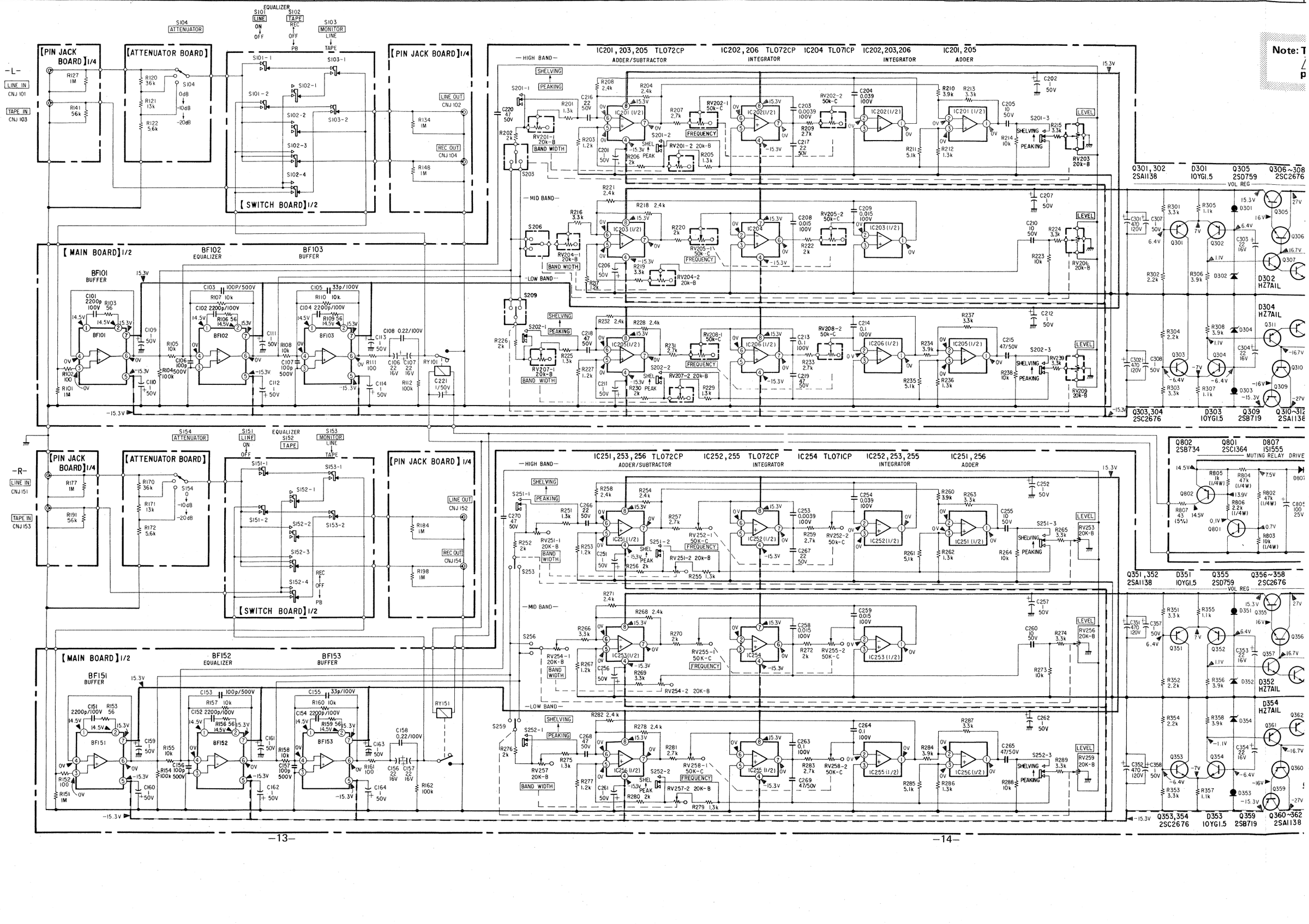
Note:

- Color code of sleeving over the end of the jacket.



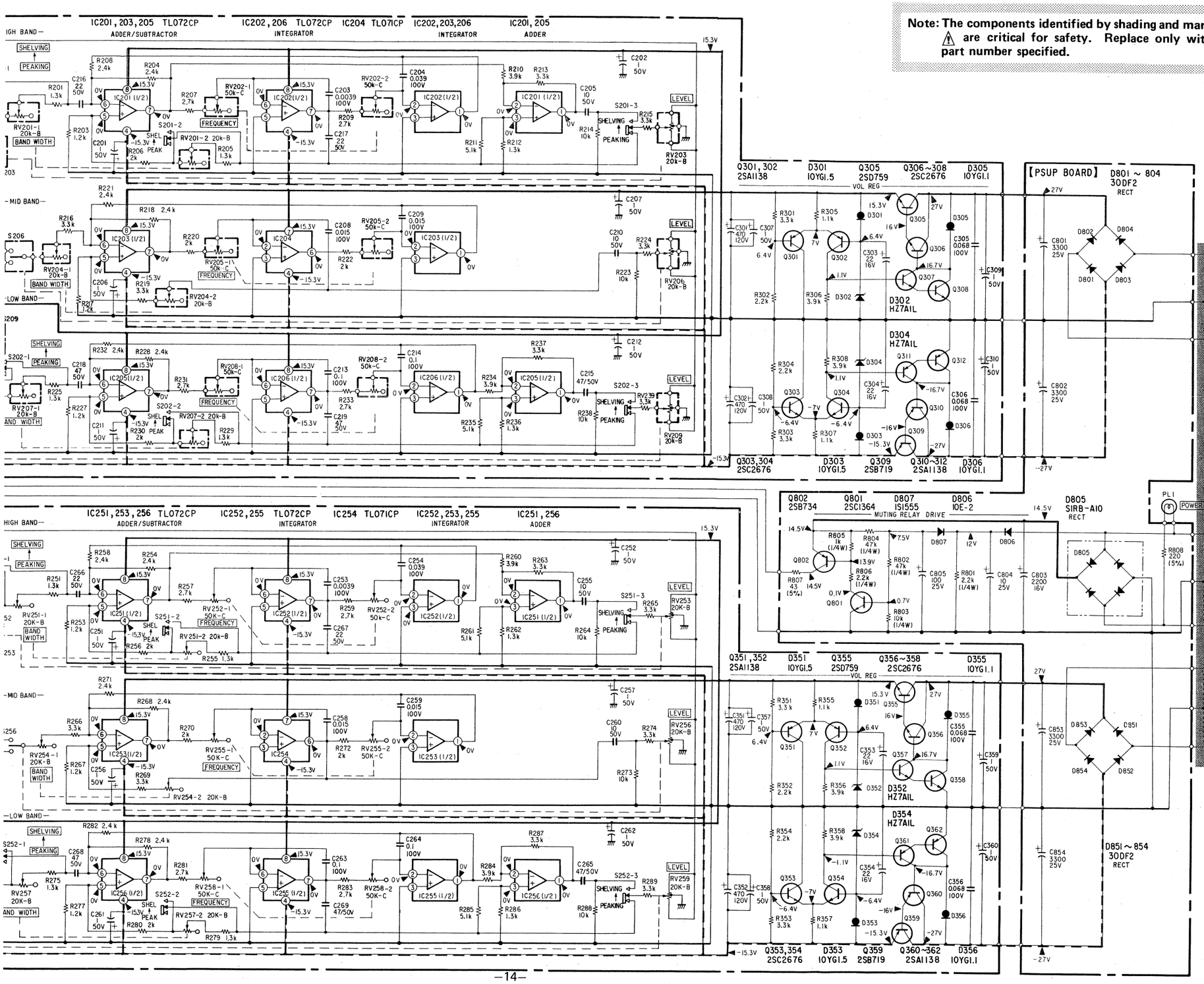
- ▒ : B + pattern

4-2. SCHEMATIC DIAGRAM



D E F G H I J K

1 2 3 4 5



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

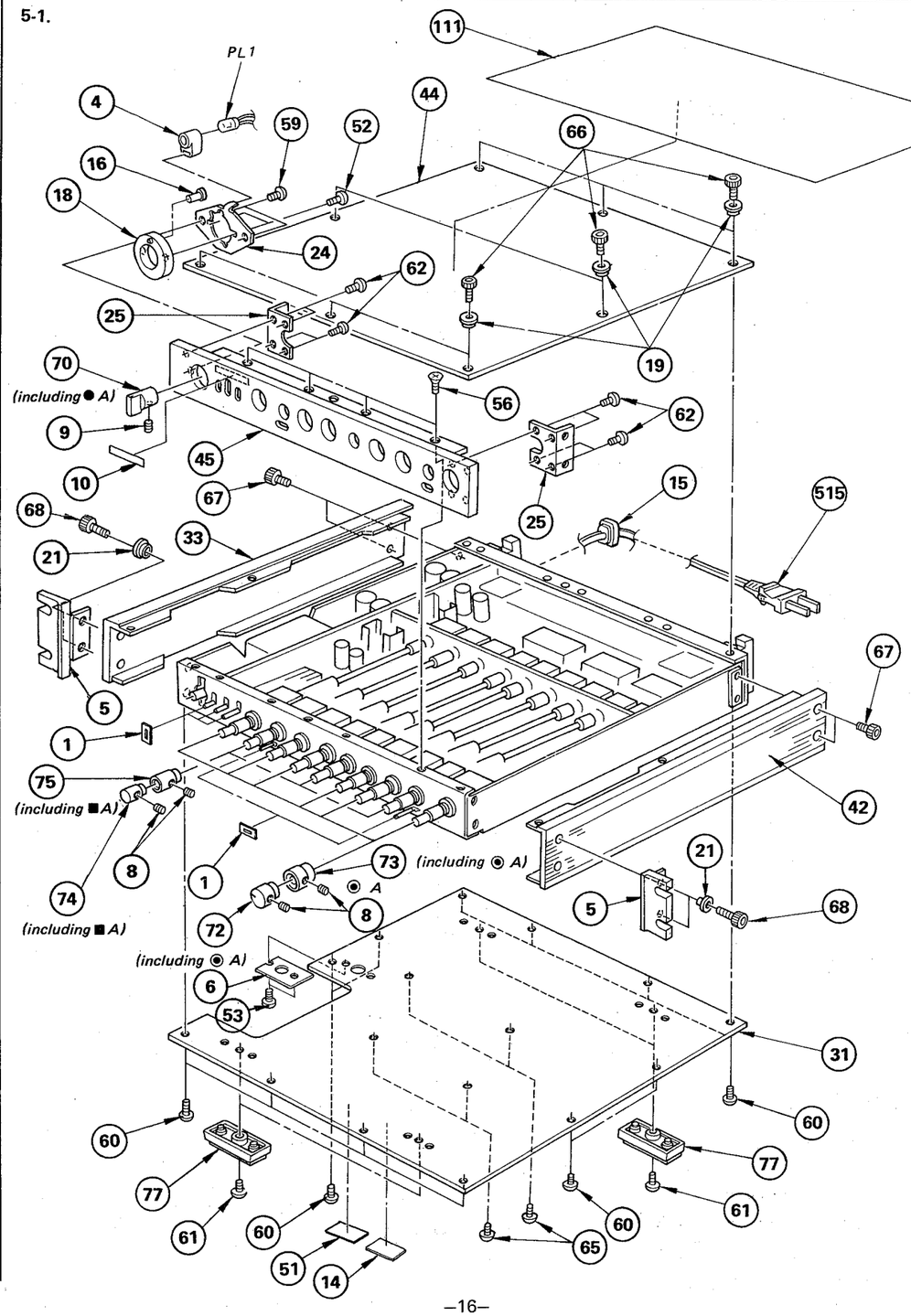
- All resistors tolerance are 1% unless otherwise noted.
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, ½W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ▭ : panel designation.
- ——: B+ bus.
- – – –: B– bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions.
- Switch

Ref. No.	Switch	Position
S101, 151	EQUALIZER LINE	ON
S102, 152	EQUALIZER TAPE	OFF
S103, 153	MONITOR	LINE
S104, 154	ATTENUATOR	0dB
S201, 251	PEAKING – SHELVING	PEAKING
S203, 253	HIGH BAND LEVEL	DEFEAT
S206, 256	MID BAND LEVEL	DEFEAT
S209, 259	LOW BAND LEVEL	DEFEAT

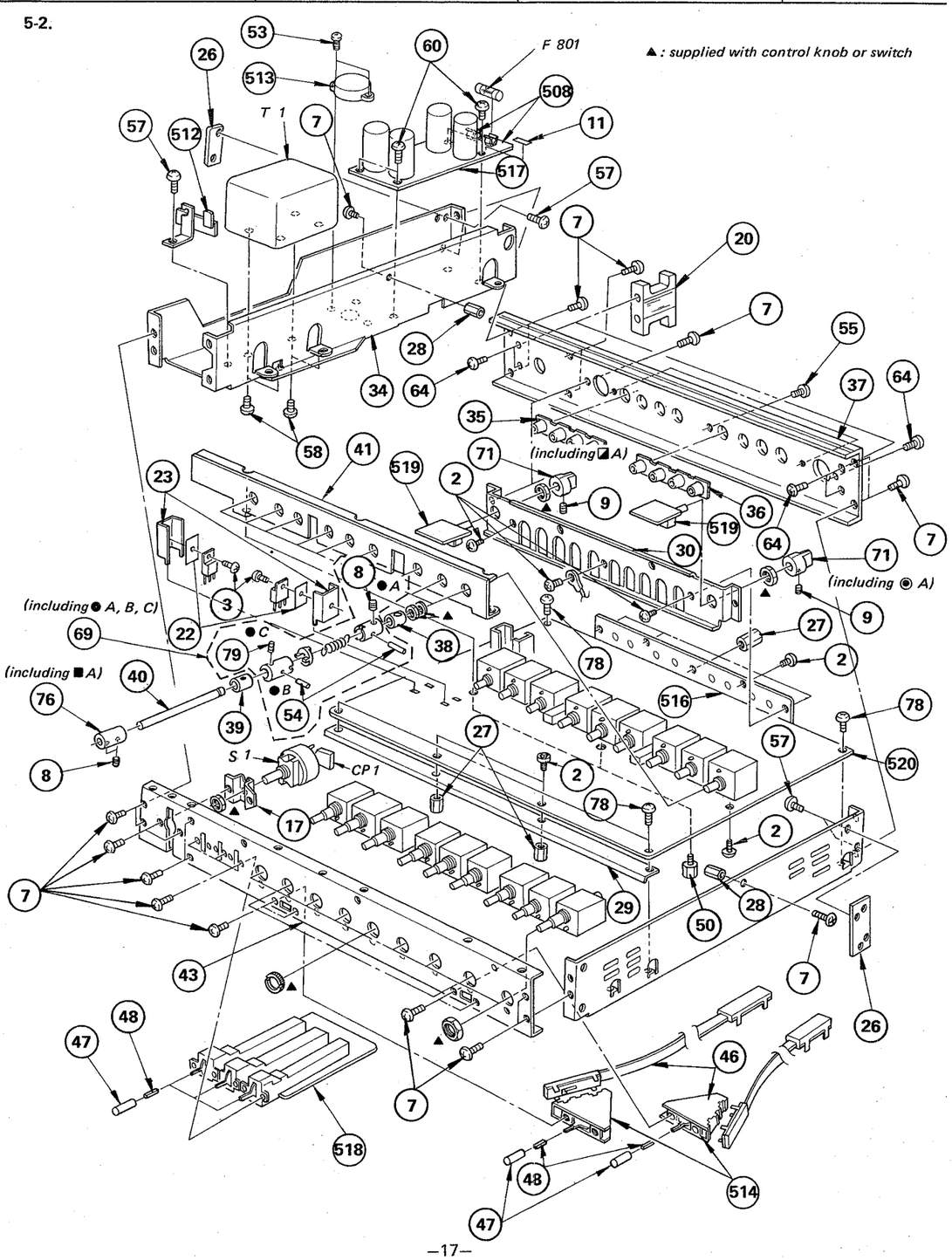
Note: Voltages are measured with a VOM (50kΩ/V).

SECTION 5
EXPLODED VIEWS AND PARTS LIST

5-1.



5-2.



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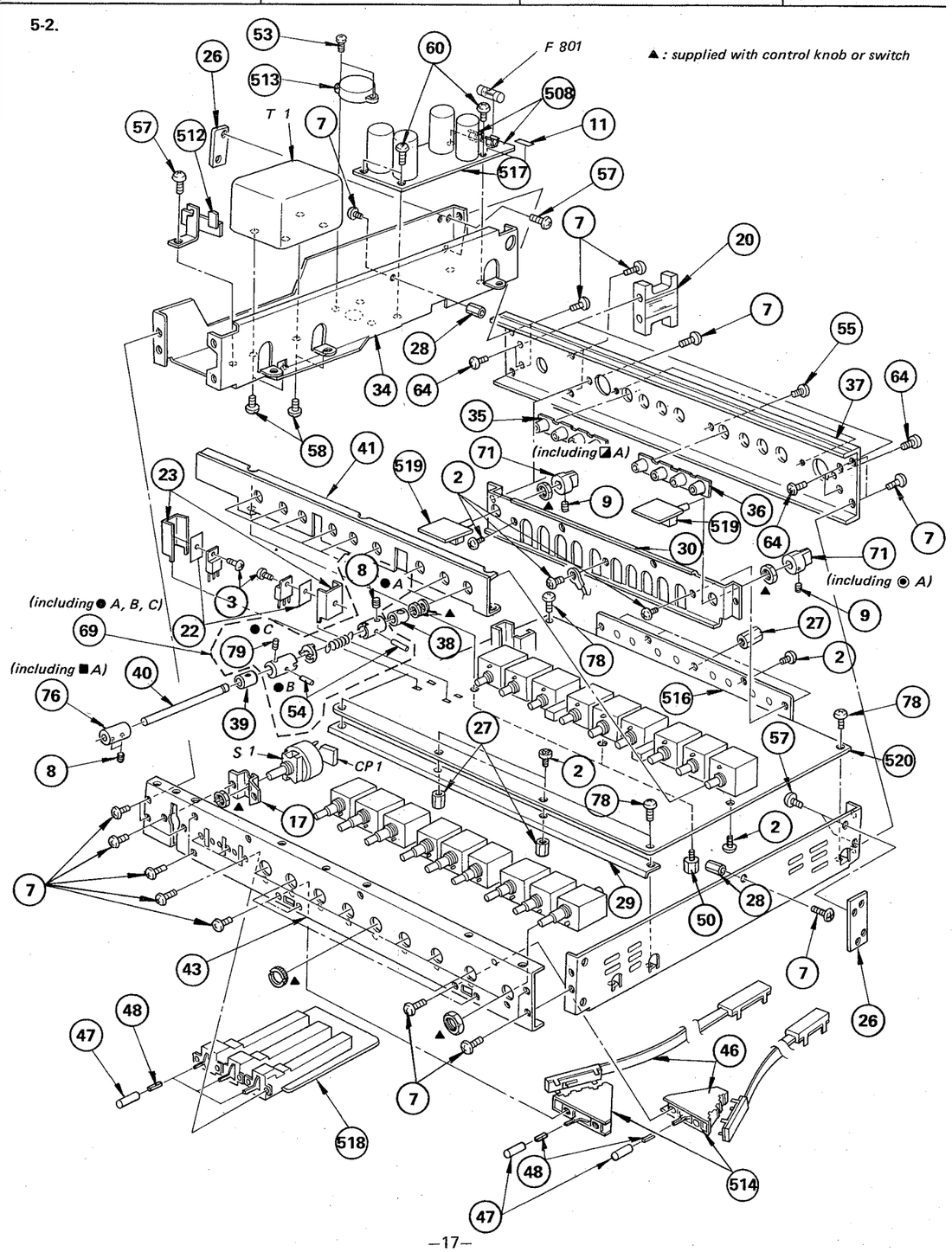
5-2.



GENERAL SECTION

No.	Part No.	Description
1	2-047-106-00	SHADE
2	2-259-121-00	SCREW, TR
3	2-259-121-11	SCREW, TR
4	3-534-276-11	HOLDER, LAMP
5	3-565-754-21	PANEL, SIDE
6 ♦	3-565-791-00	(AEP,UK)...SCALE, DIAL, VOLTAGE SELECTION
7	3-701-429-21	SCREW, +B 3X5, PAWL
8	3-701-505-00	SET SCREW, DOUBLE POINT 3X3
9	3-701-510-00	SET SCREW, DOUBLE POINT 4X4
10	3-701-690-00	(UK)...LABEL (MADE IN JAPAN)
11	3-701-948-14	(AEP,UK)...LABEL, FUSE
12	.....	
13	.....	
14	3-703-114-01	(US).....LABEL, CAUTION
14	3-703-043-21	(UK).....LABEL, CAUTION
15	3-701-280-00	(US).....STOPPER, CORD
15	4-849-786-00	(AEP,UK)...STOPPER, CORD
16	4-852-925-00	LENS, POWER LAMP
17 ♦	4-854-407-00	BRACKET, PSW
18	4-870-204-00	ORNAMENT, SWITCH (B)
19	4-870-210-00	RING, PANEL RETAINER
20	4-870-213-00	BLOCK, GUARD
21	4-870-232-00	WASHER, SUB PANEL
22	4-870-272-00	HEAT SINK
23 ♦	4-870-273-00	HEAT SINK (E)
24 ♦	4-876-601-00	STOPPER, RING
25 ♦	4-876-602-00	BRACKET, PANEL
26 ♦	4-876-603-00	CLAMP
27 ♦	4-876-607-00	COLLAR (E), PLATE, JACK
28 ♦	4-876-607-11	COLLAR (E), PLATE, JACK
29 ♦	4-876-610-00	HOLDER (B), PC BOARD
30 ♦	4-876-611-00	RETAINER (B), JACK
31 ♦	4-876-617-00	(US).....PLATE, BOTTOM
31 ♦	4-876-617-11	(AEP,UK)...PLATE, BOTTOM
32 ♦	4-876-620-11	PLATE, SIDE
33	4-876-621-00	PANEL (L), SIDE
34 ♦	4-876-623-11	CHASSIS, POWER
35	4-876-628-01	ORNAMENT, JACK (WHITE)
36	4-876-628-11	ORNAMENT, JACK (RED)
37	4-876-626-11	(US).....PLATE, JACK
37	4-876-639-11	(AEP,UK)....PLATE, JACK
38	4-877-607-00	SPACER, JOINT
39	4-877-607-11	SPACER, JOINT
40 ♦	4-877-608-00	SHAFT (A), JOINT
41 ♦	4-877-609-00	BRACKET (P), CONTROL
42	4-877-611-00	PANEL (R), SIDE
43 ♦	4-877-612-00	CHASSIS (P), SUB
44	4-877-613-00	PLATE, TOP
45	4-877-614-00	PANEL, FRONT

GENERAL SECTION

No.	Part No.	Description
46	4-877-615-00	WIRE
47 ♦	4-877-616-00	CAP, KNOB
48 ♦	4-877-617-00	SPACER, FIXED, KNOB
49	.....	
50	4-877-620-00	SUPPORT (P)
51	4-877-623-00	(AEP)...LABEL, MODEL NUMBER
51	4-877-621-00	(US)....LABEL, MODEL NUMBER
51	4-877-624-00	(UK)....LABEL, MODEL NUMBER
52	7-621-284-00	SCREW +P 2.6X4
53	7-621-775-20	(AEP,UK).....SCREW +B 2.6X5
54	7-626-308-41	SPRING-PIN 1.4X10
55	7-682-147-15	SCREW +P 3X6
56	7-682-247-09	SCREW +K 3X6
57	7-682-544-09	SCREW +B 3X3
58	7-682-545-09	SCREW +B 3X4
59	7-682-546-09	SCREW +B 3X5
60	7-682-547-09	SCREW +B 3X6
61	7-682-548-09	SCREW +B 3X8
62	7-682-559-09	SCREW +B 4X5
63	.....	
64	7-682-662-09	SCREW +PS 4X10
65	7-682-948-09	SCREW +PSW 3X8
66	7-683-402-04	BOLT,HEXAGON SOCKET 3X5
67	7-683-418-04	BOLT,HEXAGON SOCKET 4X6
68	7-683-421-04	BOLT,HEXAGON SOCKET 4X12
69	X-4854-708-0	JOINT (B) ASSY
70	X-4870-208-0	KNOB ASSY
71	X-4870-209-0	KNOB ASSY, F
72	X-4877-602-0	KNOB (A) ASSY, CONTROL
73	X-4877-603-0	KNOB (B) ASSY, CONTROL
74	X-4877-604-0	KNOB (C) ASSY, CONTROL
75	X-4877-605-0	KNOB (D) ASSY, CONTROL
76	X-4877-606-0	BOSS (A) ASSY, JOINT
77	X-4852-903-0	FOOT ASSY
78	7-685-871-09	SCREW +BV 3X6
79	3-701-506-00	SET SCREW, DOUBLE POINT 3X4

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	3-701-616-00	BAG, POLYETHYLENE
102	3-701-623-00	BAG, POLYETHYLENE
103	3-701-630-00	BAG, POLYETHYLENE
104	.....	
105	3-783-606-11	MANUAL, INSTRUCTION
106	4-809-251-00	BAG, POLYETHYLENE
107	4-876-631-00	CUSHION (FRONT)
108	4-876-632-00	CUSHION (REAR)
109	4-876-634-00	INDIVIDUAL CARTON
110	4-877-618-00	LABEL, INDIVIDUAL CARTON
111	4-877-619-00	LABEL, BOARD, TOP
112	7-721-140-60	L-WRENCH (3.0)
113	3-795-279-11	MANUAL, INSTRUCTION

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in µF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:µF, PF:µµF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

COILS

- MMH : mH, UH : µH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	.....	
502	♦;1-508-809-00	BASE POST (14MM) 2P
503	♦;1-508-810-00	14MM BASE POST
504	♦;1-508-811-00	BASE POST (14MM) 4P
505	♦;1-508-812-00	BASE POST (14MM) 5P
506	♦;1-508-815-00	14MM BASE POST
507	♦;1-508-817-00	14MM BASE POST
508	1-533-131-00	(AEP,UK).....HOLDER, FUSE
509	♦;1-535-116-00	TERMINAL
510	♦;1-535-120-00	TERMINAL
511	♦;1-535-364-00	PIN, W RAPPING
512	1-536-392-XX	(US).....L-TYPE TERMINAL STRIP
513	⚠.1-552-963-00	(AEP,UK)...SWITCH, POWER/VOLTAGE SELECT
514	1-553-795-00	SWITCH, LEVER SLIDE (REMOTE)
515	⚠.1-555-795-00	(AEP,UK)...CORD, POWER
515	⚠.1-555-386-00	(US).....CORD, POWER
516	♦;1-587-055-00	PC BOARD, PIN JACK
517	♦;1-605-094-00	PC BOARD, PSUP
518	♦;1-605-098-00	PC BOARD, SWITCH
519	♦;1-605-100-00	PC BOARD, ATTENUATOR
520	♦;A-4375-144-A	MOUNTED PCB, MAIN
BF101	A-4375-145-A	UNIT ASSY, B.F
BF102	A-4375-145-A	UNIT ASSY, B.F
BF103	A-4375-145-A	UNIT ASSY, B.F
BF151	A-4375-145-A	UNIT ASSY, B.F
BF152	A-4375-145-A	UNIT ASSY, B.F
BF153	A-4375-145-A	UNIT ASSY, B.F
C101	1-130-826-00	FILM 2200PF 5% 100V
C102	1-130-826-00	FILM 2200PF 5% 100V
C103	1-107-309-00	MICA 100PF 5% 500V
C104	1-130-826-00	FILM 2200PF 5% 100V
C105	1-107-288-00	MICA 33PF 5% 100V
C106	1-131-520-00	TANTALUM 22MF 20% 16V
C107	1-131-520-00	TANTALUM 22MF 20% 16V
C108	1-130-662-00	FILM 0.22MF 10% 100V
C109	1-131-450-00	TANTALUM 1MF 20% 50V
C110	1-131-450-00	TANTALUM 1MF 20% 50V
C111	1-131-450-00	TANTALUM 1MF 20% 50V
C112	1-131-450-00	TANTALUM 1MF 20% 50V
C113	1-131-450-00	TANTALUM 1MF 20% 50V
C114	1-131-450-00	TANTALUM 1MF 20% 50V
C115	1-107-309-00	MICA 100PF 5% 500V
C116	1-107-309-00	MICA 100PF 5% 500V
C151	1-130-826-00	FILM 2200PF 5% 100V
C152	1-130-826-00	FILM 2200PF 5% 100V
C153	1-107-309-00	MICA 100PF 5% 500V
C154	1-130-826-00	FILM 2200PF 5% 100V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C155	1-107-288-00	MICA 33PF 5% 100V
C156	1-131-520-00	TANTALUM 22MF 20% 16V
C157	1-131-520-00	TANTALUM 22MF 20% 16V
C158	1-130-662-00	FILM 0.22MF 10% 100V
C159	1-131-450-00	TANTALUM 1MF 20% 50V
C160	1-131-450-00	TANTALUM 1MF 20% 50V
C161	1-131-450-00	TANTALUM 1MF 20% 50V
C162	1-131-450-00	TANTALUM 1MF 20% 50V
C163	1-131-450-00	TANTALUM 1MF 20% 50V
C164	1-131-450-00	TANTALUM 1MF 20% 50V
C165	1-107-309-00	MICA 100PF 5% 500V
C166	1-107-309-00	MICA 100PF 5% 500V
C201	1-123-709-00	ELECT 1MF 20% 50V
C202	1-123-709-00	ELECT 1MF 20% 50V
C203	1-130-827-00	FILM 3900PF 5% 100V
C204	1-130-827-00	FILM 3900PF 5% 100V
C205	1-123-831-00	ELECT 10MF 20% 50V
C206	1-123-709-00	ELECT 1MF 20% 50V
C207	1-123-709-00	ELECT 1MF 20% 50V
C208	1-130-828-00	FILM 0.015MF 5% 100V
C209	1-130-828-00	FILM 0.015MF 5% 100V
C210	1-123-831-00	ELECT 10MF 20% 50V
C211	1-123-709-00	ELECT 1MF 20% 50V
C212	1-123-709-00	ELECT 1MF 20% 50V
C213	1-130-830-00	FILM 0.1MF 5% 100V
C214	1-130-830-00	FILM 0.1MF 5% 100V
C215	1-123-643-00	ELECT 47MF 20% 50V
C216	1-123-357-00	ELECT 22MF 20% 50V
C217	1-123-357-00	ELECT 22MF 20% 50V
C218	1-123-643-00	ELECT 47MF 20% 50V
C219	1-123-643-00	ELECT 47MF 20% 50V
C220	1-123-643-00	ELECT 47MF 20% 50V
C221	1-123-709-00	ELECT 1MF 20% 50V
C251	1-123-709-00	ELECT 1MF 20% 50V
C252	1-123-709-00	ELECT 1MF 20% 50V
C253	1-130-827-00	FILM 3900PF 5% 100V
C254	1-130-827-00	FILM 3900PF 5% 100V
C255	1-123-831-00	ELECT 10MF 20% 50V
C256	1-123-709-00	ELECT 1MF 20% 50V
C257	1-123-709-00	ELECT 1MF 20% 50V
C258	1-130-828-00	FILM 0.015MF 5% 100V
C259	1-130-828-00	FILM 0.015MF 5% 100V
C260	1-123-831-00	ELECT 10MF 20% 50V
C261	1-123-709-00	ELECT 1MF 20% 50V
C262	1-123-709-00	ELECT 1MF 20% 50V
C263	1-130-830-00	FILM 0.1MF 5% 100V
C264	1-130-830-00	FILM 0.1MF 5% 100V
C265	1-123-643-00	ELECT 47MF 20% 50V
C266	1-123-357-00	ELECT 22MF 20% 50V
C267	1-123-357-00	ELECT 22MF 20% 50V

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since thev are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

COILS
- MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C268	1-123-643-00	ELECT 47MF 20% 50V
C269	1-123-643-00	ELECT 47MF 20% 50V
C270	1-123-643-00	ELECT 47MF 20% 50V
C301	1-123-624-00	ELECT 470MF 20% 120V
C302	1-123-624-00	ELECT 470MF 20% 120V
C303	1-131-520-00	TANTALUM 22MF 20% 16V
C304	1-131-520-00	TANTALUM 22MF 20% 16V
C305	1-130-829-00	FILM 0.068 5% 100V
C306	1-130-829-00	FILM 0.068 5% 100V
C307	1-131-450-00	TANTALUM 1MF 20% 50V
C308	1-131-450-00	TANTALUM 1MF 20% 50V
C309	1-123-709-00	ELECT 1MF 20% 50V
C310	1-123-709-00	ELECT 1MF 20% 50V
C351	1-123-624-00	ELECT 470MF 20% 120V
C352	1-123-624-00	ELECT 470MF 20% 120V
C353	1-131-520-00	TANTALUM 22MF 20% 16V
C354	1-131-520-00	TANTALUM 22MF 20% 16V
C355	1-130-829-00	FILM 0.068MF 5% 100V
C356	1-130-829-00	FILM 0.068MF 5% 100V
C357	1-131-450-00	TANTALUM 1MF 20% 50V
C358	1-131-450-00	TANTALUM 1MF 20% 50V
C359	1-123-709-00	ELECT 1MF 20% 50V
C360	1-123-709-00	ELECT 1MF 20% 50V
C801	1-123-842-00	ELECT 3300MF 20% 25V
C802	1-123-842-00	ELECT 3300MF 20% 25V
C803	1-123-489-00	ELECT 2200MF 20% 16V
C804	1-121-398-00	ELECT 10MF 25V
C805	1-123-504-00	ELECT 100MF 20% 25V
C806	⚠.1-130-232-00	(AEP,UK)...FILM 0.022MF 20% 300V
C853	1-123-842-00	ELECT 3300MF 20% 25V
C854	1-123-842-00	ELECT 3300MF 20% 25V
CNJ101	1-507-567-00	PIN JACK 1P
CNJ102	1-507-567-00	PIN JACK 1P
CNJ103	1-507-567-00	PIN JACK 1P
CNJ104	1-507-567-00	PIN JACK 1P
CNJ151	1-507-567-00	PIN JACK 1P
CNJ152	1-507-567-00	PIN JACK 1P
CNJ153	1-507-567-00	PIN JACK 1P
CNJ154	1-507-567-00	PIN JACK 1P
CP1	⚠.1-231-326-00	(US)....ENCAPSULATED COMPONENT
D301	8-719-210-15	DIODE 1OYG1.5
D302	8-719-910-71	DIODE HZ7A1L
D303	8-719-210-15	DIODE 1OYG1.5
D304	8-719-910-71	DIODE HZ7A1L
D305	8-719-201-11	DIODE 1OYG1.1
D306	8-719-201-11	DIODE 1OYG1.1
D351	8-719-210-15	DIODE 1OYG1.5
D352	8-719-910-71	DIODE HZ7A1L
D353	8-719-210-15	DIODE 1OYG1.5
D354	8-719-910-71	DIODE HZ7A1L

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D355	8-719-201-11	DIODE 1OYG1.1
D356	8-719-201-11	DIODE 1OYG1.1
D801	8-719-230-02	DIODE 30DF2
D802	8-719-230-02	DIODE 30DF2
D803	8-719-230-02	DIODE 30DF2
D804	8-719-230-02	DIODE 30DF2
D805	8-719-510-10	DIODE S1RB10
D806	8-719-200-02	DIODE 10E-2
D807	8-719-815-55	DIODE 1S1555
D851	8-719-230-02	DIODE 30DF2
D852	8-719-230-02	DIODE 30DF2
D853	8-719-230-02	DIODE 30DF2
D854	8-719-230-02	DIODE 30DF2
F801	⚠.1-532-078-00	(AEP,UK)...FUSE 1A, TIME-LAG
IC201	8-759-990-72	IC TL072CP
IC202	8-759-990-72	IC TL072CP
IC203	8-759-990-72	IC TL072CP
IC204	8-759-907-01	IC TL071CP
IC205	8-759-990-72	IC TL072CP
IC206	8-759-990-72	IC TL072CP
IC251	8-759-990-72	IC TL072CP
IC252	8-759-990-72	IC TL072CP
IC253	8-759-990-72	IC TL072CP
IC254	8-759-907-01	IC TL071CP
IC255	8-759-990-72	IC TL072CP
IC256	8-759-990-72	IC TL072CP
PL1	1-518-331-81	LAMP, PILOT
Q301	8-729-113-82	TRANSISTOR 2SA1138
Q302	8-729-113-82	TRANSISTOR 2SA1138
Q303	8-729-167-62	TRANSISTOR 2SC2676
Q304	8-729-167-62	TRANSISTOR 2SC2676
Q305	8-729-376-02	TRANSISTOR 2SD760
Q306	8-729-167-62	TRANSISTOR 2SC2676
Q307	8-729-167-62	TRANSISTOR 2SC2676
Q308	8-729-167-62	TRANSISTOR 2SC2676
Q309	8-729-372-02	TRANSISTOR 2SB720
Q310	8-729-113-82	TRANSISTOR 2SA1138
Q311	8-729-113-82	TRANSISTOR 2SA1138
Q312	8-729-113-82	TRANSISTOR 2SA1138
Q351	8-729-113-82	TRANSISTOR 2SA1138
Q352	8-729-113-82	TRANSISTOR 2SA1138
Q353	8-729-167-62	TRANSISTOR 2SC2676
Q354	8-729-167-62	TRANSISTOR 2SC2676
Q355	8-729-376-02	TRANSISTOR 2SD760
Q356	8-729-167-62	TRANSISTOR 2SC2676
Q357	8-729-167-62	TRANSISTOR 2SC2676
Q358	8-729-167-62	TRANSISTOR 2SC2676

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since thev are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

COILS
- MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q359	8-729-372-02	TRANSISTOR 2SB720			
Q360	8-729-113-82	TRANSISTOR 2SA1138			
Q361	8-729-113-82	TRANSISTOR 2SA1138			
Q362	8-729-113-82	TRANSISTOR 2SA1138			
Q801	8-729-663-47	TRANSISTOR 2SC1364			
Q802	8-729-103-43	TRANSISTOR 2SB734			
R101	1-214-937-00	METAL	1M	1%	1/2W
R102	1-214-840-00	METAL	100	1%	1/2W
R103	1-214-834-00	METAL	56	1%	1/2W
R104	1-214-913-00	METAL	100K	1%	1/2W
R105	1-214-888-00	METAL	10K	1%	1/2W
R106	1-214-834-00	METAL	56	1%	1/2W
R107	1-214-888-00	METAL	10K	1%	1/2W
R108	1-214-888-00	METAL	10K	1%	1/2W
R109	1-214-834-00	METAL	56	1%	1/2W
R110	1-214-888-00	METAL	10K	1%	1/2W
R111	1-214-840-00	METAL	100	1%	1/2W
R112	1-214-913-00	METAL	100K	1%	1/2W
R120	1-214-902-00	METAL	36K	1%	1/2W
R121	1-214-891-00	METAL	13K	1%	1/2W
R122	1-214-882-00	METAL	5.6K	1%	1/2W
R127	1-214-937-00	METAL	1M	1%	1/2W
R134	1-214-937-00	METAL	1M	1%	1/2W
R141	1-214-907-00	METAL	56K	1%	1/2W
R148	1-214-937-00	METAL	1M	1%	1/2W
R151	1-214-937-00	METAL	1M	1%	1/2W
R152	1-214-840-00	METAL	100	1%	1/2W
R153	1-214-834-00	METAL	56	1%	1/2W
R154	1-214-913-00	METAL	100K	1%	1/2W
R155	1-214-888-00	METAL	10K	1%	1/2W
R156	1-214-834-00	METAL	56	1%	1/2W
R157	1-214-888-00	METAL	10K	1%	1/2W
R158	1-214-888-00	METAL	10K	1%	1/2W
R159	1-214-834-00	METAL	56	1%	1/2W
R160	1-214-888-00	METAL	10K	1%	1/2W
R161	1-214-840-00	METAL	100	1%	1/2W
R162	1-214-913-00	METAL	100K	1%	1/2W
R170	1-214-902-00	METAL	36K	1%	1/2W
R171	1-214-891-00	METAL	13K	1%	1/2W
R172	1-214-882-00	METAL	5.6K	1%	1/2W
R177	1-214-937-00	METAL	1M	1%	1/2W
R184	1-214-937-00	METAL	1M	1%	1/2W
R191	1-214-907-00	METAL	56K	1%	1/2W
R198	1-214-937-00	METAL	1M	1%	1/2W
R201	1-214-867-00	METAL	1.3K	1%	1/2W
R202	1-214-871-00	METAL	2K	1%	1/2W
R203	1-214-866-00	METAL	1.2K	1%	1/2W
R204	1-214-873-00	METAL	2.4K	1%	1/2W
R205	1-214-867-00	METAL	1.3K	1%	1/2W
R206	1-214-871-00	METAL	2K	1%	1/2W
R207	1-214-874-00	METAL	2.7K	1%	1/2W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R208	1-214-873-00	METAL	2.4K	1%	1/2W
R209	1-214-874-00	METAL	2.7K	1%	1/2W
R210	1-214-878-00	METAL	3.9K	1%	1/2W
R211	1-214-881-00	METAL	5.1K	1%	1/2W
R212	1-214-867-00	METAL	1.3K	1%	1/2W
R213	1-214-876-00	METAL	3.3K	1%	1/2W
R214	1-214-888-00	METAL	10K	1%	1/2W
R215	1-214-876-00	METAL	3.3K	1%	1/2W
R216	1-214-876-00	METAL	3.3K	1%	1/2W
R217	1-214-866-00	METAL	1.2K	1%	1/2W
R218	1-214-873-00	METAL	2.4K	1%	1/2W
R219	1-214-876-00	METAL	3.3K	1%	1/2W
R220	1-214-871-00	METAL	2K	1%	1/2W
R221	1-214-873-00	METAL	2.4K	1%	1/2W
R222	1-214-871-00	METAL	2K	1%	1/2W
R223	1-214-888-00	METAL	10K	1%	1/2W
R224	1-214-876-00	METAL	3.3K	1%	1/2W
R225	1-214-867-00	METAL	1.3K	1%	1/2W
R226	1-214-871-00	METAL	2K	1%	1/2W
R227	1-214-866-00	METAL	1.2K	1%	1/2W
R228	1-214-873-00	METAL	2.4K	1%	1/2W
R229	1-214-867-00	METAL	1.3K	1%	1/2W
R230	1-214-871-00	METAL	2K	1%	1/2W
R231	1-214-874-00	METAL	2.7K	1%	1/2W
R232	1-214-873-00	METAL	2.4K	1%	1/2W
R233	1-214-874-00	METAL	2.7K	1%	1/2W
R234	1-214-878-00	METAL	3.9K	1%	1/2W
R235	1-214-881-00	METAL	5.1K	1%	1/2W
R236	1-214-867-00	METAL	1.3K	1%	1/2W
R237	1-214-876-00	METAL	3.3K	1%	1/2W
R238	1-214-888-00	METAL	10K	1%	1/2W
R239	1-214-876-00	METAL	3.3K	1%	1/2W
R251	1-214-867-00	METAL	1.3K	1%	1/2W
R252	1-214-871-00	METAL	2K	1%	1/2W
R253	1-214-866-00	METAL	1.2K	1%	1/2W
R254	1-214-873-00	METAL	2.4K	1%	1/2W
R255	1-214-867-00	METAL	1.3K	1%	1/2W
R256	1-214-871-00	METAL	2K	1%	1/2W
R257	1-214-874-00	METAL	2.7K	1%	1/2W
R258	1-214-873-00	METAL	2.4K	1%	1/2W
R259	1-214-874-00	METAL	2.7K	1%	1/2W
R260	1-214-878-00	METAL	3.9K	1%	1/2W
R261	1-214-881-00	METAL	5.1K	1%	1/2W
R262	1-214-867-00	METAL	1.3K	1%	1/2W
R263	1-214-876-00	METAL	3.3K	1%	1/2W
R264	1-214-888-00	METAL	10K	1%	1/2W
R265	1-214-876-00	METAL	3.3K	1%	1/2W
R266	1-214-876-00	METAL	3.3K	1%	1/2W
R267	1-214-866-00	METAL	1.2K	1%	1/2W
R268	1-214-873-00	METAL	2.4K	1%	1/2W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R269	1-214-876-00	METAL	3.3K	1%	1/2W
R270	1-214-871-00	METAL	2K	1%	1/2W
R271	1-214-873-00	METAL	2.4K	1%	1/2W
R272	1-214-871-00	METAL	2K	1%	1/2W
R273	1-214-888-00	METAL	10K	1%	1/2W
R274	1-214-876-00	METAL	3.3K	1%	1/2W
R275	1-214-867-00	METAL	1.3K	1%	1/2W
R276	1-214-871-00	METAL	2K	1%	1/2W
R277	1-214-866-00	METAL	1.2K	1%	1/2W
R278	1-214-873-00	METAL	2.4K	1%	1/2W
R279	1-214-867-00	METAL	1.3K	1%	1/2W
R280	1-214-871-00	METAL	2K	1%	1/2W
R281	1-214-874-00	METAL	2.7K	1%	1/2W
R282	1-214-873-00	METAL	2.4K	1%	1/2W
R283	1-214-874-00	METAL	2.7K	1%	1/2W
R284	1-214-878-00	METAL	3.9K	1%	1/2W
R285	1-214-881-00	METAL	5.1K	1%	1/2W
R286	1-214-867-00	METAL	1.3K	1%	1/2W
R287	1-214-876-00	METAL	3.3K	1%	1/2W
R288	1-214-888-00	METAL	10K	1%	1/2W
R289	1-214-876-00	METAL	3.3K	1%	1/2W
R301	1-214-876-00	METAL	3.3K	1%	1/2W
R302	1-214-872-00	METAL	2.2K	1%	1/2W
R303	1-214-876-00	METAL	3.3K	1%	1/2W
R304	1-214-872-00	METAL	2.2K	1%	1/2W
R305	1-214-865-00	METAL	1.1K	1%	1/2W
R306	1-214-878-00	METAL	3.9K	1%	1/2W
R307	1-214-865-00	METAL	1.1K	1%	1/2W
R308	1-214-878-00	METAL	3.9K	1%	1/2W
R351	1-214-876-00	METAL	3.3K	1%	1/2W
R352	1-214-872-00	METAL	2.2K	1%	1/2W
R353	1-214-876-00	METAL	3.3K	1%	1/2W
R354	1-214-872-00	METAL	2.2K	1%	1/2W
R355	1-214-865-00	METAL	1.1K	1%	1/2W
R356	1-214-878-00	METAL	3.9K	1%	1/2W
R357	1-214-865-00	METAL	1.1K	1%	1/2W
R358	1-214-878-00	METAL	3.9K	1%	1/2W
R801	1-214-140-00	METAL	2.2K	1%	1/4W
R802	1-214-172-00	METAL	47K	1%	1/4W
R803	1-214-156-00	METAL	10K	1%	1/4W
R804	1-214-172-00	METAL	47K	1%	1/4W
R805	1-214-132-00	METAL	1K	1%	1/4W
R806	1-214-140-00	METAL	2.2K	1%	1/4W
R807	1-244-840-00	CARBON	43	5%	1/2W
R808	1-244-857-00	CARBON	220	5%	1/2W
RV201	1-228-331-00	RES, VAR, CARBON 20K/20K			
RV202	1-228-329-00	RES, VAR, CARBON 50K/50K			
RV203	1-228-333-00	RES, VAR, CARBON 20K (WITH S203)			
RV204	1-228-331-00	RES, VAR, CARBON 20K/20K			
RV205	1-228-329-00	RES, VAR, CARBON 50K/50K			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV206	1-228-333-00	RES, VAR, CARBON 20K (WITH S206)
RV207	1-228-331-00	RES, VAR, CARBON 20K/20K
RV208	1-228-329-00	RES, VAR, CARBON 50K/50K
RV209	1-228-333-00	RES, VAR, CARBON 20K (WITH S209)
RV251	1-228-332-00	RES, VAR, CARBON 20K/20K
RV252	1-228-330-00	RES, VAR, CARBON 50K/50K
RV253	1-228-334-00	RES, VAR, CARBON 20K (WITH S253)
RV254	1-228-332-00	RES, VAR, CARBON 20K/20K
RV255	1-228-330-00	RES, VAR, CARBON 50K/50K
RV256	1-228-334-00	RES, VAR, CARBON 20K (WITH S256)
RV257	1-228-332-00	RES, VAR, CARBON 20K/20K
RV258	1-228-330-00	RES, VAR, CARBON 50K/50K
RV259	1-228-334-00	RES, VAR, CARBON 20K (WITH S259)
RY101	1-515-323-00	RELAY
RY151	1-515-323-00	RELAY
S1	⚠1-552-974-00	(US).....SWITCH, AC
S1	⚠1-552-975-00	(AEP,UK).....SWITCH, AC
S101	1-553-792-00	SWITCH, LEVER SLIDE
S102	1-553-793-00	SWITCH, LEVER SLIDE
S103	1-553-792-00	SWITCH, LEVER SLIDE
S104	1-553-796-00	SWITCH, ROTARY
S151	1-553-792-00	SWITCH, LEVER SLIDE
S152	1-553-793-00	SWITCH, LEVER SLIDE
S153	1-553-792-00	SWITCH, LEVER SLIDE
S154	1-553-796-00	SWITCH, ROTARY
S201	1-553-794-00	SWITCH, SLIDE (REMOTE TYPE)
S202	1-553-794-00	SWITCH, SLIDE (REMOTE TYPE)
S251	1-553-794-00	SWITCH, SLIDE (REMOTE TYPE)
S252	1-553-794-00	SWITCH, SLIDE (REMOTE TYPE)
T1	⚠1-447-055-00	(US).....TRANSFORMER, POWER
T1	⚠1-447-056-00	(AEP,UK)...TRANSFORMER, POWER

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

COILS
- MMH : mH, UH : μH

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

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COILS
- MMH : mH, UH : μH

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